

ABSTRACT

1 An intravenous solution bag includes a temperature sensing device in the form of a
2 temperature sensing strip. The strip includes a temperature scale and corresponding
3 temperature sensitive substances that change color or illuminate the scale indicators to
4 visually indicate solution temperature. The strip may be formed integral with the bag,
5 may be attached to the bag exterior surface, may be laminated to the bag exterior surface
6 or may be encased with the bag within a solution bag liner. Further, the temperature
7 sensing strip may be affixed to bottles containing intravenous or other solutions, where
8 the strip is attached to the bottle exterior surface or to a label affixed to the bottle to
9 measure and indicate temperature of fluid contained therein as described above.
10 Moreover, the temperature sensing strip may be employed by a receptacle or delivery
11 tube of an infusion apparatus to measure and indicate solution temperature prior to or
12 during infusion. In addition, the temperature sensing strip may be disposed within
13 thermal treatment system compartments to measure and provide a visual indication of
14 medical item temperatures. Alternatively, the strip may be employed by a stand, plate,
15 receptacle or other structure receiving a medical item or container to provide a
16 temperature measurement and indication as described above. The structure may be a
17 stand-alone unit or may be attached to a thermal treatment or other system to facilitate
18 temperature measurement.